

The invention having been described, I claim

1 1. A die insert for use in die insert confining grooves in slips for use in pipe string
2 handling apparatus, the die insert comprising.

3 a) said die insert blank having a front face with pipe gripping teeth and a generally
4 parallel back face;

5 b) textured relief formed on the surface of the back face, for forming and engaging
6 impressions in the opposing surface of the confining slip, when forced against the
7 opposing surface, to add skid resistance between the die insert and the opposing
8 surface.

1 2. The die insert according to claim 1 wherein said textured relief comprises a
2 plurality of generally transverse relief patterns, the relief representing surface depressions
3 of more than one one-thousandths inch.

1 3. The die insert according to claim 1 wherein said texture relief is achieved by a
2 plurality of generally transverse scribe lines.

1 4. The die insert according to claim 1 wherein said texture relief is achieved by
2 acid etching of the surface.

1 5. A die insert for use in pipe string handling apparatus, having generally parallel first
2 and second faces on opposite sides, said die insert comprising:

3 a) said die insert with a first of the faces textured with projecting teeth for gripping
4 pipe surfaces; and

5 b) the second face textured with surface depressions to reduce the surface area in
6 contact with a mating surface of die insert carrying slips such that more than a
7 selected normal loading of the die insert will coin an impression of the textured
8 surface of the die insert into the mating surface of the related die insert carrying
9 groove, for the purpose of reducing the tendency of the die insert to slide in the
10 groove when the die insert is carrying a substantial payload.

1 6. The die insert according to claim 5 wherein said textured surface depressions are
2 more than one one-thousandths of an inch deep.

1 7. The die insert according to claim 5 wherein said textured surface depressions
2 comprise a plurality of generally transverse relief patterns, the relief representing a surface
3 depression of more than one thousandths inch.

1 8. The die insert according to claim 5 wherein said textured surface depressions are
2 achieved by a plurality of generally transverse scribe lines.

1 9. The die insert according to claim 5 wherein said textured surface depressions are
2 achieved by acid etching of the insert.

1 10. The die insert according to claim 5 wherein said textured surface on said second
2 face comprises a pattern of a definable image.

1 11. The die insert according to claim 5 wherein said pictorial pattern is a logo
2 having a definable pattern.

1 12. A die insert for use in pipe string handling apparatus, having generally
2 parallel first and second faces on opposite sides, said die insert comprising:

3 a) said die insert with a first of the faces textured with projecting teeth for
4 gripping pipe surfaces; and

5 b) the second face textured with surface depressions created to displace metal
6 upward in the vicinity of the depression to present a small elevated surface
7 accumulation of such limited effective collective load bearing area that the
8 raised metal will be imbedded into the surface of the insert supporting
9 surface, when subjected to a preselected amount of force perpendicular to
10 said second face, to reduce the tendency for the insert to slide on the insert
11 supporting surface.

1 13. The die insert according to claim 12 wherein said textured surface
2 depressions are more than one one-thousandths of an inch deep.

1 14. The die insert according to claim 12 wherein said textured surface
2 depressions comprise a plurality of generally transverse relief patterns, the relief
3 representing a surface depression of more than one thousandths inch.

1 15. The die insert according to claim 12 wherein said textured surface
2 depressions are achieved by a plurality of generally transverse scribe lines.

1 16. The die insert according to claim 12 wherein said textured surface
2 depressions are achieved by acid etching of the insert.

1 17. The die insert according to claim 12 wherein said textured surface on said
2 second face comprises a pictorial pattern.

1 18. The die insert according to claim 12 wherein said pictorial pattern is a
2 symbol having a definable pattern.

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